

LUXURY CUSTOM HOME



Location: Brewster, Massachusetts

Project Overview

BD Electrical & Solar provided the complete electrical package for this luxury custom residence in Brewster, Massachusetts. Working alongside the builder from the earliest stages of construction through final commissioning, our team designed and installed a fully integrated electrical system that combines architectural lighting, whole-home controls, renewable energy, and future-ready infrastructure.

The project included complete rough wiring, custom lighting installation, service equipment, solar photovoltaic installation, smart home integration, and a whole-home control management system, delivering a seamless electrical experience throughout the residence.



Scope:

Our team completed every aspect of the home's electrical installation, including:

- Complete new construction electrical rough-in
- Main service installation
- Distribution panels and branch circuits
- Custom architectural lighting
- Recessed lighting throughout
- Decorative fixture installation
- Kitchen and appliance circuits
- Bathroom electrical systems
- Exterior lighting
- Landscape lighting rough-ins
- Whole-home smart control system
- System 7 whole-home management system
- Structured wiring
- Residential solar installation
- Code compliance and inspections
- Final trim and commissioning



Complete New Construction Electrical Package

Beginning before insulation, BD Electrical & Solar coordinated hundreds of branch circuits, home runs, and low-voltage systems to create a clean, organized electrical infrastructure. Every cable was routed with long-term serviceability in mind. Dedicated pathways, organized framing penetrations, and disciplined cable management make future maintenance significantly easier while reflecting the level of craftsmanship expected in a custom home.



Architectural Lighting

Lighting was designed to complement the home's modern coastal architecture.

The project included:

- Decorative chandeliers
- Linear vanity lighting
- Accent lighting
- Recessed LED lighting
- Exterior sconces
- Porch lighting
- Outdoor entertaining area lighting

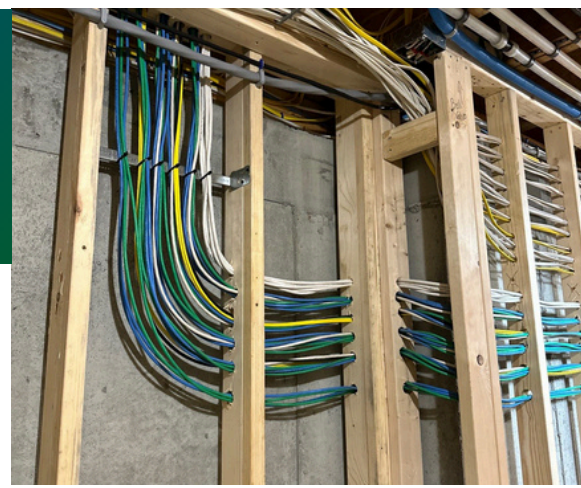
Rather than simply illuminating spaces, the lighting creates layers throughout the home while highlighting exposed timber framing, natural finishes, and architectural details.



Whole Home Controls

A System 7 home management system allows the homeowners to manage multiple electrical systems from a centralized interface. Integrated controls simplify everyday operation while allowing future expansion as additional smart home technologies are added.





Residential Solar Integration

The home's solar array was incorporated during construction rather than as an afterthought. Planning solar alongside the electrical installation allowed conduit pathways, service equipment, and roof penetrations to be integrated cleanly into the home's design while maintaining curb appeal.

Challenges

Luxury custom homes demand exceptional coordination. Our electricians worked closely with the builder, finish carpenters, HVAC contractor, plumbers, lighting designers, and homeowners throughout construction to accommodate evolving fixture selections and maintain construction schedules without compromising workmanship. The exposed wood ceilings and architectural details required precise planning to conceal wiring while preserving the clean appearance of the finished spaces.



The Results

The completed project delivers:

- Clean and organized electrical infrastructure
- Premium architectural lighting throughout
- Integrated whole-home controls
- Solar energy production
- Future-ready electrical capacity
- Reliable power distribution
- Modern coastal aesthetic
- Professional installation built for decades of service

